


16998 U.S. PTO
020904

PTO/SB/05 (08-00)
Approved for use through 10/31/2002. OMB 0651-0032
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| | | |
|--|-------------------------------|--|
| UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b)) | Attorney Docket No. | MTB30US |
| | First Inventor | Kia Silverbrook |
| | Title | THERMAL INK JET PRINTHEAD WITH BUBBLE NUCLEATION OFFSET FROM INK SUPPLY |
| | Express Mail Label No. | |

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| APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i> | ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231 |
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|--|--|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i></p> <p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages 59] <i>(preferred arrangement set forth below)</i></p> <ul style="list-style-type: none">- Descriptive title of the invention- Cross Reference to Related Applications- Statement Regarding Fed sponsored R & D- Reference to sequence listing, a table, or a computer program listing appendix- Background of the Invention- Brief Summary of the Invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 66]</p> <p>5. Oath or Declaration [Total Pages 2]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <i>(for continuation/divisional with Box 17 completed)</i></p> <p>i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
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| | |
|--|--|
| ACCOMPANYING APPLICATION PARTS | |
| 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) | |
| 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) | <input type="checkbox"/> Power of Attorney |
| 11. <input type="checkbox"/> English Translation Document (if applicable) | |
| 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 | <input type="checkbox"/> Copies of IDS Citations |
| 13. <input type="checkbox"/> Preliminary Amendment | |
| 14. <input type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) | |
| 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) | |
| 16. <input type="checkbox"/> Other: | |

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: **10 / 302,274**

Prior application information: Examiner: _____ Group / Art Unit: **2853**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

| | | | | | |
|--|----------------------------------|----------------------------|----------------------|--|--|
| 18. CORRESPONDENCE ADDRESS | | | | | |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label  or <input type="checkbox"/> Correspondence address below | | | | | |
| Name KIA SILVERBROOK | | | | | |
| Address 393 Darling Street, | | | | | |
| City Balmain | | State NSW | Zip Code 2041 | | |
| Country Australia | Telephone +61-2-9818-6633 | Fax +61-2-9555-7762 | | | |

| | | | |
|-------------------|---|-----------------------------------|-------------------------|
| Name (Print/Type) | KIA SILVERBROOK | Registration No. (Attorney/Agent) | |
| Signature |  | Date | January 28, 2004 |

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PTO/SB/17 (10-03)

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 1,422.00

Complete if Known

Application Number
Filing Date
First Named Inventor Kia Silverbrook
Examiner Name
Art Unit
Attorney Docket No. MTB30US

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number
Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|------------------------|--------------|
| 1001 770 | 2001 385 | Utility filing fee | 770.00 |
| 1002 3 0 | 2002 1 | Design filing fee | |
| 1003 5 0 | 2003 265 | Plant filing fee | |
| 1004 7 0 | 2004 3 5 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |
| SUBTOTAL (1) | | | (\$) 770.00 |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 54 | -20** = 34 | X 18 | = 612 |
| 3 | -3** = | X | = 0 |
| Multiple Dependent | | | |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|----------------------------|----------------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 8 | 2201 4 | Independent claims in excess of 3 |
| 1203 2 0 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 8 | 2204 4 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$) 612

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|----------------------------|----------------------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for <i>ex parte</i> reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or reissue) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | 40.00 |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 40.00

SUBMITTED BY

Name (Print/Type) Kia Silverbrook

Signature

Registration No.
(Attorney/Agent)

(Complete if applicable)

Telephone 612 98186633

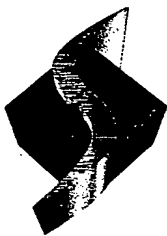
Date

January 28, 2004

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.
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ACN 066 573 671

COPY

February 6, 2004

Commissioner of Patents and Trademarks
Washington DC 20231
USA

Dear Sir

22 New United States Patent Applications
Assignee: Silverbrook Research Pty Ltd

This letter accompanies 22 new patent applications.

One bank draft for the total amount of US\$31,094 is enclosed to cover filing and assignment fees for each of the 22 applications. Also attached is a list giving details of each application.

We look forward to receiving filing receipts in due course.

If you need to contact us in relation to the applications, please email my assistant, Leonie News at leonie.news@silverbrookresearch.com or by fax to +61 2 9555 7762.

Yours faithfully

Kia Silverbrook
Silverbrook Research Pty Ltd
kia.Silverbrook@silverbrookresearch.com

| | DOCKET NO. | TITLE | INVENTORS | AMOUNT US\$ |
|----|------------|--|---------------------------------------|----------------|
| 1 | MTB15 | Thermal Ink Jet Printhead with Unintentional Boiling Prevention | Kia Silverbrook | 1422 |
| 2 | MTB16 | Thermal Ink Jet Printhead with Small Nozzle Dimensions | Kia Silverbrook | 1422 |
| 3 | MTB18 | Thermal Ink Jet Printhead with Bubble Collapse Point Void | Kia Silverbrook | 1422 |
| 4 | MTB19 | Thermal Ink Jet Printhead with Reduced Pressure Transients | Kia Silverbrook | 1422 |
| 5 | MTB20 | Thermal Ink Jet Printhead with Laterally Enclosed Heater Element | Kia Silverbrook | 1422 |
| 6 | MTB21 | Thermal Ink Jet Printhead Assembly with Laminated Structure for the Alignment and Funneling of Ink | Kia Silverbrook | 1422 |
| 7 | MTB22 | Thermal Ink Jet Printhead with Drive Circuitry on Opposing Sides of Chamber | Kia Silverbrook | 1422 |
| 8 | MTB23 | Thermal Ink Jet Printhead with Suspended Heater Element Spaced from Chamber Walls | Kia Silverbrook | 1422 |
| 9 | MTB24 | Thermal Ink Jet Printhead with Drive Circuitry Offset From Heater Elements | Kia Silverbrook | 1422 |
| 10 | MTB25 | Thermal Ink Jet Printhead with Heater Element Having Non-Uniform Resistance | Kia Silverbrook | 1422 |
| 11 | MTB26 | Thermal Ink Jet Printhead with Heater Element that Forms Symmetrical Bubbles | Kia Silverbrook | 1422 |
| 12 | MTB27 | Thermal Ink Jet Printhead with Wide Heater Element | Kia Silverbrook | 1422 |
| 13 | MTB28 | Thermal Ink Jet Printhead with Heater Element Mounted to Opposing Sides of the Chamber | Kia Silverbrook | 1422 |
| 14 | MTB29 | Thermal Ink Jet Printhead with Heater Element Symmetrical About Nozzle Axis | Kia Silverbrook | 1422 |
| 15 | MTB30 | Thermal Ink Jet Printhead with Bubble Nucleation Offset from Ink Supply | Kia Silverbrook | 1422 |
| 16 | MTB31 | Thermal Ink Jet Printhead with Bubble Nucleation Laterally Offset from Nozzle | Kia Silverbrook | 1422 |
| 17 | MTB32 | Thermal Ink Jet Printhead with Low Resistance Connection to Heater | Kia Silverbrook | 1422 |
| 18 | MTB34 | Thermal Ink Jet printhead With Non-Buckling Heater Element | Kia Silverbrook | 1422 |
| 19 | MTB35 | Thermal Ink Jet PRInthead with Rotatable Heater Element | Kia Silverbrook | 1422 |
| 20 | MTB36 | Thermal Ink Jet Printhead with Heater Element Current Flow Around Nozzle Axis | Kia Silverbrook | 1422 |
| 21 | MTB17 | Thermal Ink Jet Printhead with Bubble Formation Surrounding Heater Element | Kia Silverbrook, AJ North & GJ McAvoy | 1,502 |
| 22 | MTB33 | Inkjet Printhead with CMOS Drive Circuitry Close to Ink Supply Passage | Kia Silverbrook | 1,152 |
| | | | TOTAL | 31,094 |